

### SPYWOLF

**Security Audit Report** 



Completed on

March 4, 2023



### OVERVIEW

This audit has been prepared for **SamurAI** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -







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# Samura



### **PROJECT DESCRIPTION**

### According to their whitepaper:

The SamurAi smart contract is a cutting-edge solidity code designed to revolutionize the world of cryptocurrency trading. Its sophisticated algorithm can identify all-time highs and higher highs with a high degree of accuracy. These higher highs will be determined by a complex and secure mathematical formula that ensures fair distribution of profits between high-profit gainers and future dip buyers.

Release Date: Launching in March, 2023

Category: Al



### CONTRACT INFO

Token Name

Samurai

Symbol

SamurAi

**Contract Address** 

0xE356F5AEe9e898CC104dc550e26aDf71b2d859D0

Network

Binance Smart Chain
TESTNET

Deployment Date

March 03, 2023

**Total Supply** 

1,000,000,000

Language

Solidity

Verified?

Yes

Status

Not launched

### **TAXES**

Buy Tax

3%

Sell Tax

3%



### Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

<sup>\*</sup>Taxes can be changed in future



### **TOKEN TRANSFERS STATS**

| Transfer Count          | TESTNET |
|-------------------------|---------|
| Uniq Senders            | TESTNET |
| Uniq Receivers          | TESTNET |
| Total Amount            | TESTNET |
| Median Transfer Amount  | TESTNET |
| Average Transfer Amount | TESTNET |
| First transfer date     | TESTNET |
| Last transfer date      | TESTNET |
| Days token transferred  | TESTNET |

### **SMART CONTRACT STATS**

| Calls Count           | TESTNET |
|-----------------------|---------|
| External calls        | TESTNET |
| Internal calls        | TESTNET |
| Transactions count    | TESTNET |
| Uniq Callers          | TESTNET |
| Days contract called  | TESTNET |
| Last transaction time | TESTNET |
| Created               | TESTNET |
| Create TX             | TESTNET |
| Creator               | TESTNET |





### **VULNERABILITY CHECK**

| Design Logic   | Passed |
|--|--------|
| Compiler warnings.   | Passed |
| Private user data leaks  | Passed |
| Timestamp dependence   | Passed |
| Integer overflow and underflow                                 | Passed |
| Race conditions and reentrancy. Cross-function race conditions | Passed |
| Possible delays in data delivery                               | Passed |
| Oracle calls   | Passed |
| Front running  | Passed |
| DoS with Revert  | Passed |
| DoS with block gas limit                                       | Passed |
| Methods execution permissions                                  | Passed |
| Economy model  | Passed |
| Impact of the exchange rate on the logic                       | Passed |
| Malicious Event log  | Passed |
| Scoping and declarations                                       | Passed |
| Uninitialized storage pointers                                 | Passed |
| Arithmetic accuracy  | Passed |
| Cross-function race conditions                                 | Passed |
| Safe Zeppelin module   | Passed |
| Fallback function security                                     | Passed |

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### THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

### High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### **Low Risk**

Issues on this level are minor details and warning that can remain unfixed.

### Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



### **FOUND THREATS**

### High Risk

When new all time low is recorded, users will get 5% more on their purchase and the 'feesAsIncentive' variable will be reduced by that amount. This can be considered as mint, because contract's token balances are not taken into consideration (accumulated fees) and when 'feesAsIncentive' variable is decreased, the remaining contract balances will be available for swap via the '\_swapFees()' function but user balances will still have the extra amount.

```
if (uniswapV2Pair == from) {
    // NOTE: If the price in the new dip the first buyer will get the incentive (5%)
     fees = amount.mul(BUY_PROTOCOL_FEE).div(100);
     uint256 incentive = amount.mul(DIP BUY INCENTIVE).div(100);
     if (feesAsIncentive < incentive) {
   incentive = feesAsIncentive;</pre>
          lastDipPrice = _getRealtimePrice();
   nction <u>swapFees()</u>    private {
    uint256    protocolFeesBalance = balanceOf(address(this)).sub(
     _swapTokensForETH(protocolFeesBalance);
```





### **FOUND THREATS**

### Medium Risk

No medium risk-level threats found in this contract.



### Low Risk

No low risk-level threats found in this contract.





### **FOUND THREATS**

### Informational

Owner can exclude address from fees.

Addresses excluded from fees are not subject to tax deduction.

```
function excludeFromFees(address account, bool excluded)
    external
    onlyOwner
{
    _isExcludedFromFees[account] = excluded;
}
```

Protocol wallet can initiate manual auto swap.
When auto swap is initiated, the contract will swap its tokens holdings into bnb and distribute it to the respective address.

```
function forceSwapProtocolFees() external {
    require(
        _msgSender() == _protocolWallet,
        "Only protocol wallet can call this method"
    );
    _swapFees();
}
```





### **RECOMMENDATIONS FOR**

## GOOD PRACTICES

- Consider fundamental tradeoffs
- Be attentive to blockchain properties
- 3 Ensure careful rollouts
- 4 Keep contracts simple
- Stay up to date and track development

### SamurAI GOOD PRACTICES FOUND

- ✓ The owner cannot stop or pause the contract
- The owner cannot set a transaction limit
- The smart contract utilizes "SafeMath" to prevent overflows

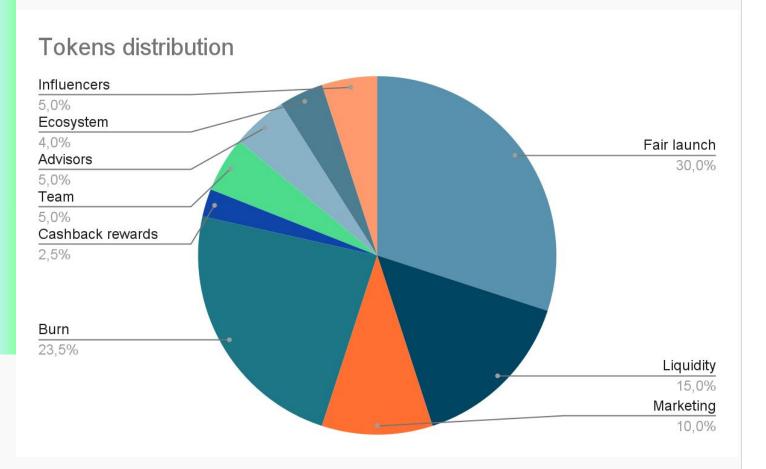
07



### The following tokenomics are based on the project's whitepaper and/or website:

- 30% Fair launch
- 15% Liquidity
- 10% Marketing
- 23.5% Burn

- 5% Team
- 5% Advisors
- 4% Ecosystem
- 5% Influencers & Partnerships
- 2.5% Cashback rewards



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# THE

### 1 The team is annonymous

### **KYC INFORMATION**



We recommend the team to get a KYC in order to ensure trust and transparency within the community.



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### **Website URL**

https://samurai.tax/

### **Domain Registry**

https://www.namecheap.com/

### **Domain Expiration**

Expires on 2024-02-24

### **Technical SEO Test**

Passed

### **Security Test**

Passed. SSL certificate present

### Design

Single page design, appropriate color scheme and graphics.

### Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

### Whitepaper

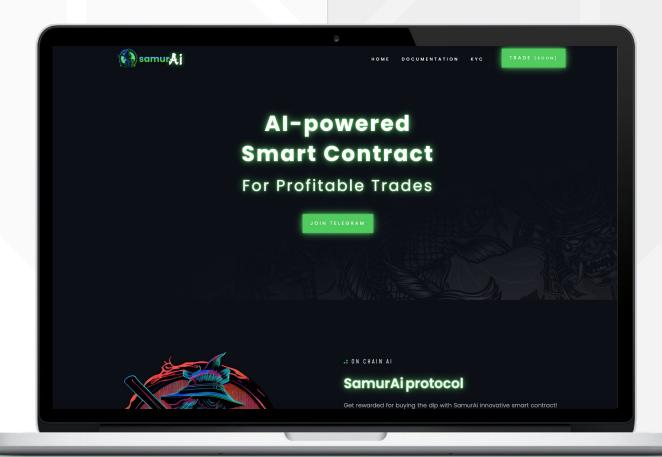
Explanatory information can be found in the project's documentation page.

### Roadmap

Yes, goals set without time frames.

### Mobile-friendly?

Yes



### samurai.tax

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### F

### SOCIAL MEDIA

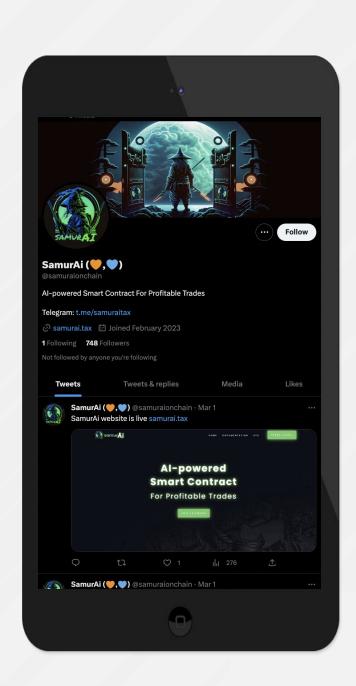
& ONLINE PRESENCE

ANALYSIS

Project's social media

pages are active







### **Twitter**

@samuraionchain

- 740 followers
- Posts daily
- 5 total posts



### Telegram

@samuraitax

- 1205 members
- Active members
- Active mods



**Discord** 

Not available



Medium

Not available



### SPYWOLF CRYPTO SECURITY

Audits | KYCs | dApps Contract Development

### **ABOUT US**

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 400 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to contact@spywolf.co or t.me/joe\_SpyWolf

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### Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.

